

What is Claimed is:

1. A method for controlling a device for recording/reproducing an optical recording medium having control information recorded in a wobbled form on a signal track, the method comprising the steps of:

- 5 (a) detecting a wobbled signal from a signal track at a time a regular recording /reproducing of the optical recording medium is not carried out, (for reading the control information;) and,
- (b) using the control information in the regular recording/reproduction.

10 2. A method as claimed in claim 1, wherein the step (a) includes the steps of applying PLL to the detected wobbled signal, and reading the control information from the PLL applied wobble signal.

15 3. A method as claimed in claim 1, wherein the control information is a spindle rotating speed.

4. A method as claimed in claim 1, wherein the step (a) includes the step of carrying out wobble PLL in a particular section of the optical recording medium and inhibiting the wobble PLL in rest of the sections.

15 5. A method as claimed in claim 1, wherein the step (a) includes the step of generating a window signal in the vicinity of a track center of the optical recording medium, wherein the wobble PLL is carried out in a window section the window signal is active therein.

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✓ 6. A method as claimed in claim 5, wherein the step of generating a window signal includes the step of setting up certain sections with reference to a rising edge and a falling edge of a TZC signal turned on/off at a zero cross position of the tracking error signal as the window sections. ✓

5 7. A method for controlling a device for recording/reproducing an optical recording medium having control information recorded in a wobbled form on a signal track, the method comprising the steps of:

- 10 (a) detecting a wobbled signal from a signal track at a time a regular recording /reproducing of the optical recording medium is not carried out, for detecting the present rotating speed of the optical recording medium;
- (b) fixing a target rotating speed of the optical recording medium with reference to the detected present rotating speed of the optical recording medium, and controlling the optical recording medium to the target rotating speed; and,
- (c) turning on a tracking servo for a regular recording/reproduction.

15 8. A method as claimed in claim 7, wherein the time a regular recording/reproducing of the optical recording medium is not carried out is a free running state in which only a focus servo is turned on.

20 9. A method as claimed in claim 7, wherein the wobbled signal is detected by subjecting a difference signal of optical reflection signals at the optical recording medium to band pass filtering.

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10. A method as claimed in claim 7, wherein the step (a) includes the steps of applying PLL to the wobbled signal, and reading the present rotating speed of the optical recording medium from the wobbled signal having PLL applied thereto.

5 11. A method as claimed in claim 7, wherein the step (a) includes the step of generating a window signal in the vicinity of a track center of the optical recording medium, wherein the application of PLL to the wobbled signal is conducted within a window section the window signal is active, and the application of PLL to the wobbled signal is inhibited in rest of the sections.

10 12. A method as claimed in claim 11, wherein the step of generating a window signal includes the step of setting up certain sections with reference to a rising edge and a falling edge of a TZC signal turned on/off at a zero cross position of the tracking error signal as the window sections.

15 13. A device for controlling a device for recording/reproducing an optical recording medium having control information recorded in a wobbled form on a signal track, the device comprising:

 a wobble detecting part for detecting a wobbled signal formed by wobbling from the signal track at a time a regular recording/reproducing of the optical recording medium is not carried out;

20 an information reading part for reading control information from the detected wobble signal; and,

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a servo controlling part for using the control information in a regular recording

/reproduction.

14. A device as claimed in claim 13, wherein the wobble detecting part subjects a difference signal of optical reflection signals at the optical recording medium to band pass filtering, for detecting the wobble signal.

15. A device as claimed in claim 13, wherein, after application of the PLL to the detected wobble signal, the information reading part reads the control information from the wobble signal having PLL applied thereto.

16. A device as claimed in claim 13, wherein the control information is a rotating speed of the optical recording medium.

17. A device as claimed in claim 13, wherein the information reading part conducts wobble PLL only to a particular section of the optical recording medium, inhibits the wobble PLL in rest of sections.

18. A device as claimed in claim 13, wherein the information reading part includes a window generating part for generating a window signal in the vicinity of a track center of the optical recording medium, to carry out wobble PLL within a window section the window signal is active therein.

~~S 3/1~~ 19. A device as claimed in claim 18, wherein the window generating part sets up certain sections with reference to a rising edge and a falling edge of a TZC signal turned on/off at a zero cross position of the tracking error signal as the window sections.

20. A device as claimed in claim 13, wherein the servo controlling part controls a spindle
5 to be at a target rotating speed, and turns on a tracking servo.